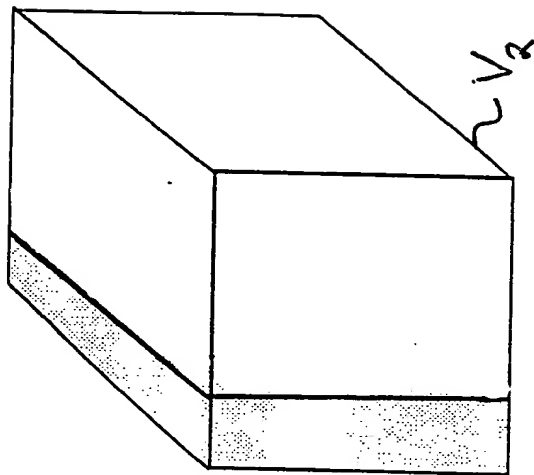


100% Explosive

$\rho = 1.5 \text{ gm/cc}$

Fig. 1



20% Explosive

$\rho = 0.3 \text{ gm/cc}$

Fig. 2

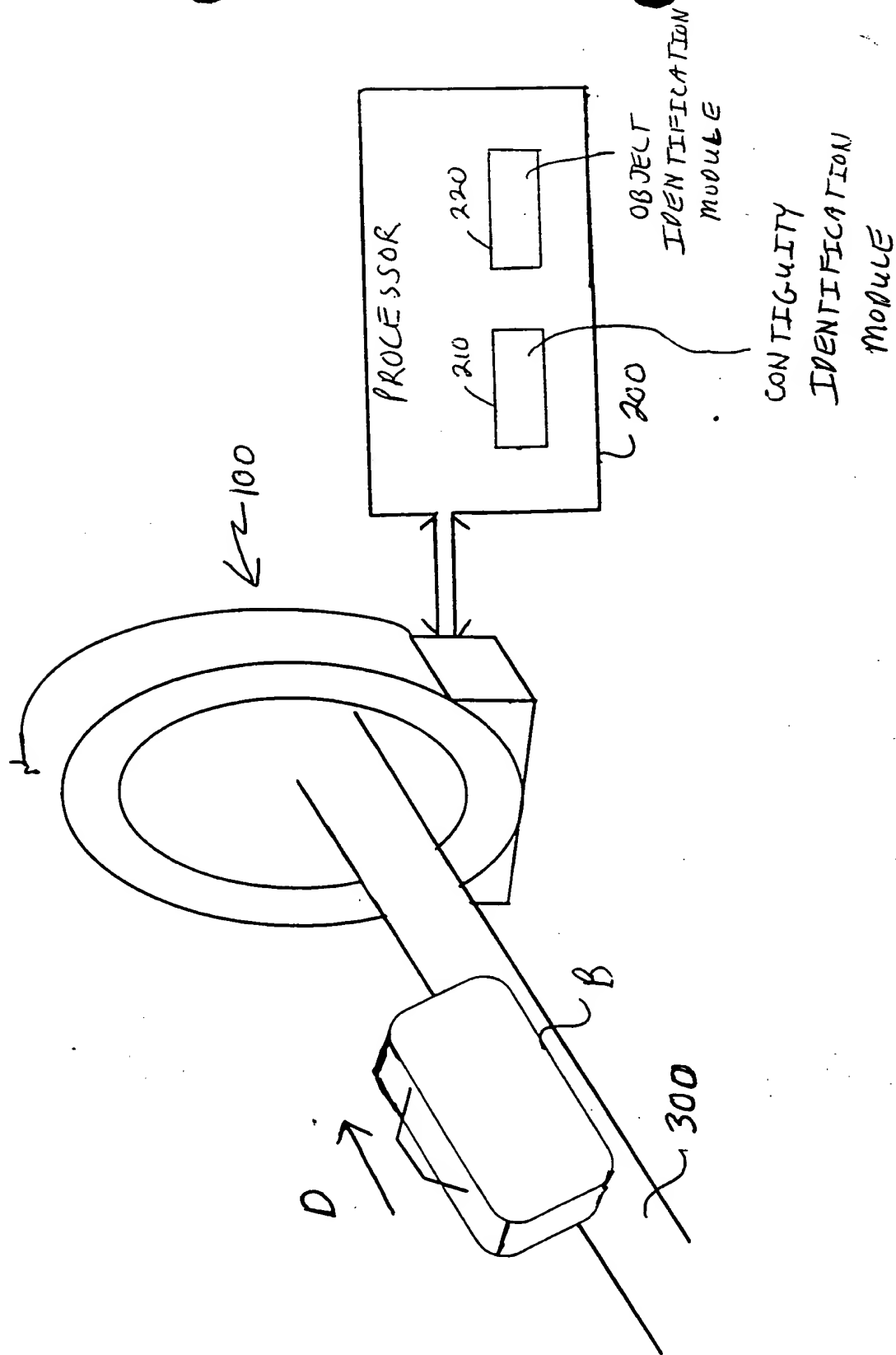


Fig. 3

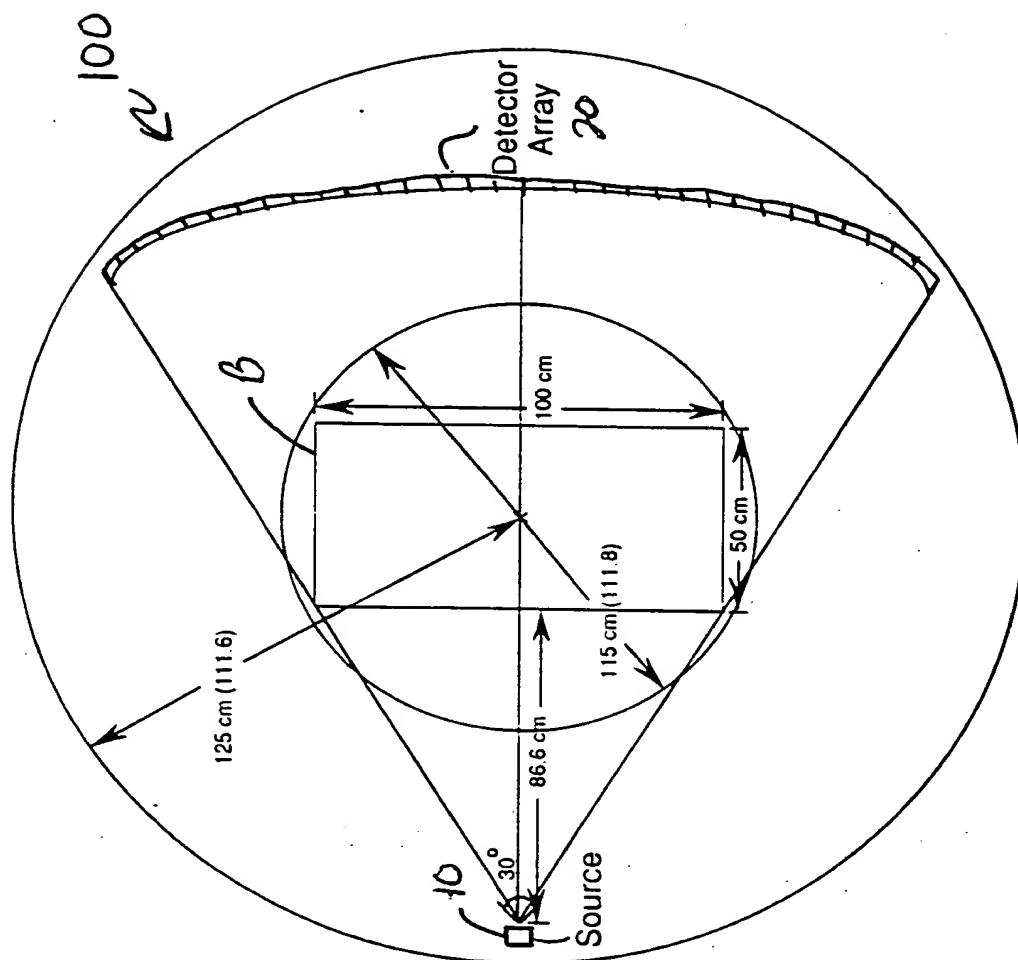


Fig. 4

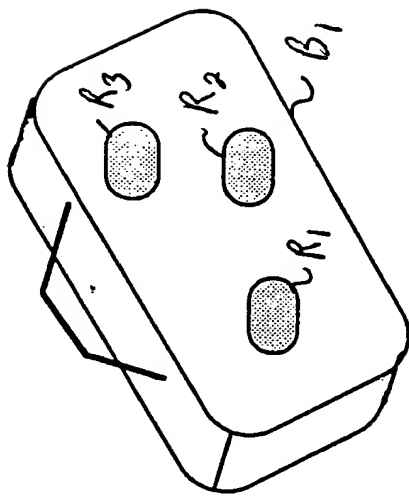


Fig. 5

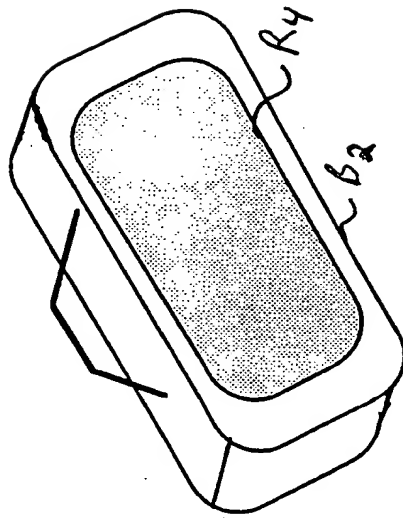


Fig. 6

```

graph TD
    S1[SCAN SUIT -  
CASE TO DETER-  
MINE DENSITY  
OF EACH VOXEL] --> S2[CONNECT & LABEL  
VOXELS OF  
SIMILAR RANGE  
OF DENSITIES]
    S2 --> S3[COUNT NUMBER  
OF VOXELS IN  
EACH CONTIGUOUS  
REGION]
    S3 --> S4[DETERMINE THE  
VOLUME OF  
EACH CONTIGUOUS  
REGION]
    S4 --> S5{VOLUME  
GREATER  
THAN  
T1?}
    S5 -- NO --> END1[END]
    S5 -- YES --> S6[DETERMINE  
MASS OF EACH  
SUSPECT REGION]
    S6 --> S7{MASS  
GREATER  
THAN  
T2?}
    S7 -- NO --> END2[END]
    S7 -- YES --> S8[VERIFY  
PRESENCE OF  
EXPLOSIVE]
  
```

Fig. 7